PATENT COOPERATION TREATY

PCT

TRANSLATION INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference FMAT0501-PCT				FOR FURTHER A	ACTION	See Form PCT/IPEA/41	6
International application No.				International filing da	ate (day/month/year)	Priority date (day/month/year)	
PCT/JP2005/002998				24.02.200	5	26.02.2004	
Internati	ional Pa	tent Classific	ation (IPC) or nati	onal classification and	IPC		
н0.	H05B33/04 (2006.01), H01H13/02 (2006.01), H01H13/702 (2006.01), H05B33/14 (2006.01), H05B33/28 (2006.01)						
	Applicant TOSHIBA MATERIALS CO., LTD.						
1.	1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.						
2.	This R	REPORT cons	sists of a total of	4	sheets, including	this cover sheet.	
3.	This re	eport is also a	accompanied by Al	NNEXES, comprising	:		
	а.	sent to	the applicant and	to the International Bi	ureau) a total of	s	heets, as follows:
	sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).						
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.						
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	υ	(sent to	те тиетинопин	sureau omy) a totai oi	(indicate type and number	of electronic carrier(s))	
		related the	ereto, in computer	readable form only, a	as indicated in the Suppler	_ , containing a sequence mental Box Relating to S	
				rative Instructions).			
4.	This re	eport contains	s indications relation	ng to the following iter	ms:		
	\boxtimes	Box No. I	Basis of the	report			
		Box No. II	Priority				
		Box No. III	Non-establis	shment of opinion with regard to novelty, inventive step and industrial applicability			licability
		Box No. IV	Lack of unit	ty of invention			
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					strial applicability;	
Box No. VI Certain documents cit			aments cited				
		Box No. VI	II Certain defe	ects in the international	application		
	Box No. VIII Certain observations on the international application						
Date of	submiss	ion of the dei	mand		Date of completion of thi	s report	
Name and mailing address of the IPEA/JP					Authorized officer		
Facsimile No.			Telephone No.				

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2005/002998

Box	No. I	I Basis of the report					
1.		h regard to the language, this report is based on the internationated under this item.	onal application in the language in which it was filed, unless othe	rwise			
		This report is based on translations from the original langum which is the language of a translation furnished for the pure international search (Rule 12.3 and 23.1(b))	age into the following languageposes of:	,			
		publication of the international application (Rule 12.	4)				
		international preliminary examination (Rule 55.2 and	Wor 55.3)				
2.	rece	eiving Office in response to an invitation under Article 14 a report):	s report is based on (replacement sheets which have been furnist re referred to in this report as "originally filed" and are not a				
		the international application as originally filed/furnished the description:					
	Ш	•					
			as originally filed/fu				
		•	received by this Authority on				
	П		received by this radiiotity on				
	Ш	the claims:					
		nos.					
			as amended (together with any statement) under Ai				
			received by this Authority on				
	$\overline{}$	nos.*	received by this Authority on				
	Ш	the drawings:					
		sheets	as originally filed/fu	ırnished			
			received by this Authority on				
		sheets*	received by this Authority on				
		a sequence listing and/or any related table(s) – see Suppler	nental Box Relating to Sequence Listing.				
3.		The amendments have resulted in the cancellation of:					
		the description, pages					
		the claims, nos.	the claims, nos.				
]				
		the sequence listing (specify):					
4.			dments annexed to this report and listed below had not been ma	ade, since			
		the description, pages					
		the claims, nos.					
		the drawings, sheets/figs					
		any table(s) related to sequence listing (specify):					
*	If ite	em 4 applies, some or all of those sheets may be marked "sup	perseded."				

International application No.	
PCT/JP2005/002998	

Вох		Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1.	Statement					
	Novelty (N)	Claims	1-15	YES		
		Claims		NO		
Inventive step (IS)		Claims		YES		
		Claims	1-15	NO		
	Industrial applicability (IA)	Claims	1-15	YES		
		Claims		NO		

2. Citations and explanations (Rule 70.7)

- Document 1: JP 2002-56737 A (Seiko Precision Inc.), 22 February 2002, paragraphs [0001] to [0020] and fig. 2 & US 2002/0030987 A1
- Document 2: JP 8-20772 A (Mitsubishi Materials Corp.), 23

 January 1996, paragraphs [0004] to [0007],

 [0012] and [0017] to [0019]
- Document 3: JP 6-70195 U (Mitsubishi Cable Industries, Ltd.), 30 September 1994, paragraphs [0034] and [0044]

Claims 1, 2 and 9 to 15

Document 1 cited in the international search report discloses an EL sheet configured from: a light emitting layer (3), which is formed by mixing and stirring zinc sulfide into a binder as a fluorescent material; a transparent conductive film (2), which comprises a transparent conductive polymer; a transparent substrate (1) (which corresponds to the transparent protective film); an insulating layer (4); a back surface electrode layer (5); and an insulating member (6), which is formed upon the back surface electrode layer (5). Furthermore, document 1 cited in the international search report discloses an illuminated switch for use in a portable

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

information terminal or the like, wherein said EL sheet is disposed between a key operating pad (11), which corresponds to a key top, and a base sheet (7), which comprises a dome-shaped moveable contact and fixed contacts (in particular, refer to fig. 2). Therein, a person skilled in the art could adjust the thickness of the transparent substrate (1), as appropriate. Such being the case, the inventions set forth in claims 1, 2 and 9 to 15 do not involve an inventive step.

Claims 3, 4 and 8

Given the disclosures in document 2 cited in the international search report, a person skilled in the art could adjust the average particle diameter and/or the particle size distribution of the EL fluorescent particles, as appropriate. Such being the case, the inventions set forth in claims 3, 4 and 8 do not involve an inventive step.

Claims 5 to 7

Document 3 cited in the international search report discloses a configuration wherein an 0.2 μ m-thick SiO₂ layer is provided around the outer periphery of the fluorescent substance as a moisture-shielding film. Such being the case, the inventions set forth in claims 5 to 7 do not involve an inventive step.